

## **AMPLIFIER APPARATUS FOR USE WITH A SENSOR**

### ABSTRACT OF THE DISCLOSURE

An apparatus for use with a sensor includes first and second signal treating circuit segments coupled with the sensor for presenting a substantially balanced differential signaling representation of output signals from the sensor. Each respective signal treating circuit segment comprises a plurality of circuit elements having different electrical

- 5        symmetries coupled in parallel and establishing a plurality of parallel signal paths having asymmetric signal handling characteristics. A feedback circuit is coupled with the first and second signal treating circuit segments and provides feedback signals to selected circuit elements in each of the first and second signal treating circuit segments. The feedback signals effect substantially balanced signal handling among the selected circuit
- 10      elements having similar electrical symmetries.